

California Coastal and Marine Mapping Initiative

Accurate statewide mapping of seafloor substrate, marine habitat types, and bathymetry (underwater topography) of California's nearshore waters is a crucial component necessary to guide multiple ocean management decisions. Designating marine reserves, understanding sediment transport systems, ensuring shipping safety, identifying dredging and dumping sites, regulation of offshore coastal development, and illuminating the dynamics of fisheries and other marine species, are just a few of the applications that benefit from coastal and marine mapping data and products. Although small sections of the coast, including some adjacent federal waters, have been mapped to varying extents and resolutions, a comprehensive and seamless map of the state's near- and offshore benthic and marine resources does not currently exist. The current phase of seafloor mapping completed maps for 375 nm², which means we now have high-resolution maps for approximately 33% of our coast. The Ocean Protection Council and the State Coastal Conservancy are currently exploring options for completing the remainder of the mapping for the state (out to 3nm).

Total area mapped: Approximately 125 nm of coast x 3 nm state waters = 375 nm²

Phase I = Ano Nuevo - Bolinas

Sponsors: SCC, OPC, National Marine Sanctuary Program

Feb. 2005: Disbursement of \$1,200,000 to the Monterey Bay Sanctuary Foundation for the California Coastal and Marine Mapping Initiative project, to fund data acquisition for near- and offshore substrate and marine habitat mapping along the northern Central California Coast.

Phase I LIDAR coverage and inshore multibeam coverage (15m into MHHW) has not been completed but will be occurring this spring and summer.

Phase II south = Bolinas - Pt Arena

Sponsors: DFG, OPC, SCC, NMS

Nov. 2006: Augmentation of \$1,510,000 to the California Coastal and Marine Mapping Initiative and the Monterey Bay Sanctuary Foundation to complete offshore seafloor mapping between Bolinas and Point Arena.

Mapping is completed, and ground truthing is underway.

Project Funding

Ocean Protection Council	\$1,200,000
National Marine Sanctuary Prog. In-Kind Contribution (est.)	\$ 550,000
Coastal Conservancy	\$1,560,000
California Department of Fish and Game	<u>\$1,000,000</u>

TOTAL PROJECT COST	\$4,310,000
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[Project staff recommendations](#) (item 14)